



US011017970B2

(12) **United States Patent**  
**Stonebraker**

(10) **Patent No.:** **US 11,017,970 B2**  
(45) **Date of Patent:** **May 25, 2021**

(54) **CIRCUIT TESTING SYSTEM AND METHOD OF OPERATION**

(71) Applicant: **Stephen E. Stonebraker**, Malvern, OH (US)

(72) Inventor: **Stephen E. Stonebraker**, Malvern, OH (US)

(\*) Notice: Subject to any disclaimer, the term of this patent is extended or adjusted under 35 U.S.C. 154(b) by 159 days.

(21) Appl. No.: **16/297,101**

(22) Filed: **Mar. 8, 2019**

(65) **Prior Publication Data**

US 2019/0279833 A1 Sep. 12, 2019

**Related U.S. Application Data**

(60) Provisional application No. 62/640,821, filed on Mar. 9, 2018.

(51) **Int. Cl.**

**H01H 83/04** (2006.01)

**H01H 71/10** (2006.01)

**H01R 27/02** (2006.01)

**H01R 24/60** (2011.01)

**H01R 24/28** (2011.01)

(52) **U.S. Cl.**

CPC ..... **H01H 83/04** (2013.01); **H01H 71/10** (2013.01); **H01R 24/28** (2013.01); **H01R 24/60** (2013.01); **H01R 27/02** (2013.01)

(58) **Field of Classification Search**

USPC ..... 324/424, 537  
See application file for complete search history.

(56) **References Cited**

**U.S. PATENT DOCUMENTS**

2008/0082276	A1*	4/2008	Rivers	.....	G01R 22/063
					702/62
2009/0033336	A1*	2/2009	Blanchard	.....	G01R 27/32
					324/537
2013/0021163	A1*	1/2013	Watford	.....	H01H 9/168
					340/638
2013/0329331	A1*	12/2013	Erger	.....	H01H 9/168
					361/102
2016/0274168	A1*	9/2016	Cabot	.....	G01R 31/52

**FOREIGN PATENT DOCUMENTS**

WO	2018134649	7/2018
WO	2018142381	8/2018

\* cited by examiner

*Primary Examiner* — Vincent Q Nguyen

(74) *Attorney, Agent, or Firm* — Sand, Sebolt & Wernow Co., LPA

(57)

**ABSTRACT**

A circuit testing system for identifying a circuit breaker associated with an electrical circuit is disclosed. The circuit testing system includes a circuit testing module and a connector mechanism provided on the circuit testing module. The connector mechanism is adapted to operably engage the circuit testing module with an electrical connection point of the electrical circuit. The circuit testing system further includes a remote electronic device wirelessly connected to circuit testing module. The connector mechanism is one of one or more prongs, a socket, and a probe; and the one of the one or more prongs, the socket, and the probe operably engages the circuit testing module to the electrical connection point.

**7 Claims, 11 Drawing Sheets**

